

ABSTRACT OF THE DISCLOSURE

A system for the controlling the operational mode of an adaptive equalizer quickly determines the operational mode of the adaptive equalizer by measuring the amplitude variation of a DC offset for every segment. The system includes a DC estimator for
5 estimating a DC value of a baseband signal, a maximum outputting circuit and a minimum outputting circuit for extracting a maximum DC value and a minimum DC value from the estimated DC value, an initializing circuit for initializing the maximum outputting circuit and the minimum outputting circuit, an operating circuit for obtaining a difference between the maximum DC value and the minimum DC value, a computing circuit for obtaining a median
10 value between the maximum DC value and the minimum DC value, a storing circuit for outputting a threshold corresponding to the median value, a comparator for comparing the difference between the maximum DC value and the minimum DC value with the threshold, and a controller for changing the operational mode of the adaptive equalizer.